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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,454	10/19/2001	Robert E. Dudley	01917581	6787
- 7590	09/10/2002		·	•.
Joseph A. Mahoney			EXAMINER	
Mayer, Brown & P P.O. Box 2828 Chicago, 12 6069	latt		JIANG, SHAOJIA A	
Chicago/ IE 60690-2828			ART UNIT	PAPER NUMBER
· .			1617	
<i>\$</i>			DATE MAILED: 09/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>م</u>		Application N .	Applicant(s)		
		10/046,454	DUDLEY ET AL.		
	Office Action Summary	Examin r	Art Unit		
		Shaojia A. Jiang	1617		
Period fo	Th MAILING DATE of this communication a or Reply	ppears on the c ver sheet with	the correspondence address		
THE   - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statically received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1.  1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 Id will apply and will expire SIX (6) MONTH: ute, cause the application to become ABAN	y be timely filed  30) days will be considered timely.  S from the mailing date of this communication.  DONED (35 U.S.C. § 133).		
1)[	Responsive to communication(s) filed on	•			
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.			
3)  Dispositi	Since this application is in condition for allocolosed in accordance with the practice under on of Claims				
4)🖂	Claim(s) <u>1-21,27,53-55,57,58,60-64 and 79</u>	-145 is/are pending in the appli	ication.		
	4a) Of the above claim(s) is/are withdr	awn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-21,27,53-55,57,58,60-64 and 79-</u>	145 is/are rejected.			
7)	Claim(s) is/are objected to.				
8)[	Claim(s) are subject to restriction and	or election requirement.			
Applicati	on Papers				
9)[	The specification is objected to by the Examir	ner.			
10)[	The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.		
	Applicant may not request that any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).		
11) 🔲 -	The proposed drawing correction filed on	is: a)□ approved b)□ disa	approved by the Examiner.		
	If approved, corrected drawings are required in	reply to this Office action.			
12)[	The oath or declaration is objected to by the E	Examiner.			
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13)[	Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).		
a)[	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority docume	nts have been received.			
	2. Certified copies of the priority documents have been received in Application No				
* S	3. Copies of the certified copies of the pri application from the International E see the attached detailed Office action for a list	Bureau (PCT Rule 17.2(a)).	-		
	cknowledgment is made of a claim for domes	•			
a	)  The translation of the foreign language packnowledgment is made of a claim for dome	rovisional application has beer	n received.		
Attachmen	•				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)		
S. Patent and Tr PTO-326 (Re		Action Summary	Part of Paper No. 5		

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## **DETAILED ACTION**

This application is a divisional of 09/651,777.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 103 and 145 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "AUC $_{0-24}$ " in claims 103 and 145 renders the claims indefinite. The term "AUC $_{0-24}$ " is not defined in the specification and claim. Therefore, the scope of claims is indefinite as to the identification/description.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-21, 27, 53-55, 57-58, 60-64, and 79-145 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen (WO 96/227372, PTO-892) and Heiber et al. (WO 93/25168, PTO-892), and Omar (5,730,987, PTO-892) and Moreland et al. (PTO-892) and Mak et al. (WO 99/24041, PTO-892).

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Allen discloses a topical cream composition useful for treating male erectile dysfunction comprising the particular penetration enhancer, isopropyl myristate or glycerine. See abstract and claim 1 and 4.

Heiber et al. (WO 93/25168) discloses that testosterone compositions comprising a transdermal (percutaneous) delivery system comprising C2 or C3 alcohol, a penetration enhancer therein, i.e., glycerine, and a gelling agent, are useful in the treatment of hypogonadism in a male (see page 19 lines 1-3), and in methods moderating and maintaining transdermal drug delivery to the derma at a relatively sustained rate over the duration of application to situs. See abstract, Example 3 at page 19-21, and claims 1-46 and 48.

Mak et al. discloses an enhancement of the penetration of transdermally (percutaneously) or topically applied a pharmaceutical composition comprising an active agent, testosterone, and a penetration-enhancing system that comprises oleic acid (a fatty acid having 17 carbon atoms), C1-C4 alcohol (e.g., ethanol, 2-propanol), and the gelling agent (a thickener), CARBOPOL (a polyacrylic acid). See abstract, page 3 lines 1-5, page 10 Example 1, and Figure 2.

Omar discloses that the particular steroid, testosterone and yohimbine HCI (ACTIBINE) or a combination thereof to be administered are useful in the composition and the method of the treatment of impotent in human males, i.e., erectile dysfunction. See col.1 lines 17-62 and claims 6-8.

The prior art does not expressly disclose a method of treating hypogonadism in a male comprising the composition herein.

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the particular steroid, testosterone, C1-C4 alcohol, and the particular penetration enhancer, C8-C22 fatty acid and isopropyl myristate in a method for improving the efficacy of the composition in the method of treating hypogonadism in a male herein.

One having ordinary skill in the art would have been motivated to employ the particular steroid, testosterone, C1-C4 alcohol, and the particular penetration enhancer, C8-C22 fatty acid and isopropyl myristate in a method for improving the efficacy of the composition herein useful for treating erectile dysfunction in an eugonadal male since the composition containing testosterone of Mak et al. is known to be useful in a method for improving the efficacy of percutaneously delivering a pharmaceutical because this composition further comprises a transdermally or topically penetration-enhancing system encompassing an oleic acid (a fatty acid having 17 carbon atoms), C1-C4 alcohol (e.g., ethanol, 2-propanol), and a penetration enhancer and a gelling agent. Moreover, the teachings of Heiber et al. have further provided the motivation to make the present invention since testosterone compositions of Heiber are known to comprise a transdermal (percutaneous) delivery system comprising C2 or C3 alcohol, a penetration enhancer therein, i.e., glycerine, and a gelling agent, and these compositions are known to be useful in methods moderating and maintaining transdermal drug delivery to the derma at a relatively sustained rate over the duration of application to situs.

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The particular steroid, testosterone, is well known to be useful to treat

hypogonadism in a male according to Heiber et al.. It is also well known that an

eugonadal male suffers erectile dysfunction. Therefore, one of ordinary skill in the art

would have found it obvious to employ the composition of Mak et al. in the instant

claimed method. The topical cream composition of Allen is also known to be useful for

treating male erectile dysfunction comprising the particular penetration enhancer herein,

isopropyl myristate, which provides additional motivation for the claimed method.

Since all composition components herein are known to be useful to treat male

erectile dysfunction, it is considered prima facie obvious to combine them into a single

composition useful for the very same purpose. At least additive therapeutic effects

would have been reasonably expected. See In re Kerkhoven, 205 USPQ 1069 (CCPA

1980).

Applicants are suggested to amend the composition herein employed in the

instant claimed methods, to be consistent with the composition in the parent application

09/651,777 which has been allowed, in order to place the instant application in condition

for allowance.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Jiang, whose telephone number is (703) 305-

1008. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie, J.D., can be reached on (703) 308-4612. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-1235.

S. A. Jiang, Ph.D. Patent Examiner, AU 1617 September 3, 2002 ISSELL TRAVERS IMARY EXAMINER GROUP 1200